

Exploring the Extreme			
1997 Mathematics			
Learning Standards			
Illinois Mathematics			
Grades 4-5			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Plumb Lines	IL	MA.4-5.10.A.2c	Make predictions and decisions based on data and communicate their reasoning.
Jet Propulsion	IL	MA.4-5.10.A.2c	Make predictions and decisions based on data and communicate their reasoning.
Exploring the Extreme			
1997 Mathematics			
Learning Standards			
Illinois Mathematics			
Grades 6-8			
Activity/Lesson	State	Standards	
Jet Propulsion	IL	MA.6-8.10.B.3	Formulate questions (e.g., relationships between car age and mileage, average incomes and years of schooling), devise and conduct experiments or simulations, gather data, draw conclusions and communicate results to an audience using traditional methods and contemporary technologies.
Center of Gravity, Pitch, Yaw	IL	MA.6-8.6.A.3	Represent fractions, decimals, percentages, exponents and scientific notation in equivalent forms.
Center of Gravity, Pitch, Yaw	IL	MA.6-8.6.C.3a	Select computational procedures and solve problems with whole numbers, fractions, decimals, percents and proportions.
Fuel Efficiency	IL	MA.6-8.8.D.3a	Solve problems using numeric, graphic or symbolic representations of variables, expressions, equations and inequalities.
Fuel Efficiency	IL	MA.6-8.8.D.3b	Propose and solve problems using proportions, formulas and linear functions.
Fuel Efficiency	IL	MA.6-8.10.A.3a	Construct, read and interpret tables, graphs (including circle graphs) and charts to organize and represent data.